(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 15 December 2005 (15.12,2005)

PCT

(10) International Publication Number WO 2005/118405 A1

(51) International Patent Classification⁷: B6 E06B 7/23, F16J 15/46

B65B 65/00,

(21) International Application Number:

PCT/IB2005/001312

(22) International Filing Date: 9 May 2005 (09.05.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

BO2004A000331

25 May 2004 (25.05.2004) I

(71) Applicant (for all designated States except US): I.M.A. INDUSTRIA MACCHINE AUTOMATICHE S.P.A. [IT/IT]; Via Emilia Levante, 428-442, I-40064 Ozzano Emilia (IT).

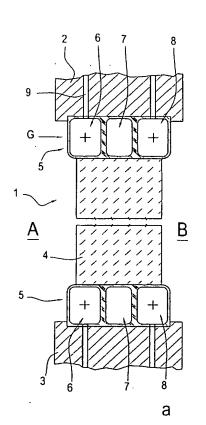
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GASPERINI, Elvio

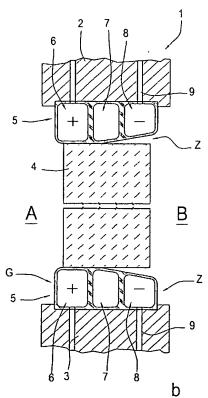
[IT/IT]; Via Marconi, 41/A, I-40024 Castel S. Pietro Terme (IT). MARCHESCHI, Vittoriano [IT/IT]; Via S. Gennaro, 68, I-55010 Lappato (IT).

- (74) Agent: LANZONI, Luciano; Bugnion S.p.A., Via Goito, 18, I-40126 Bologna (IT).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: A SEPARATION STRUCTURE FOR ISOLATING A DELIMITED SPACE FROM THE EXTERNAL ENVIRONMENT





(57) Abstract: A separation structure (1) for isolating a delimited space (B) from the external environment (A), in particular a space (B) defined by an apparatus operating in the pharmaceutical material processing sector, comprises suitably assembled separator means (2, 3, 4) of the panel type or the like and seal means (G) inserted between the separator means (2, 3, 4); the seal means (G) being of the fluid dynamic expansion type and formed by at least two separately expanding tubular ducts (6, 8; 1:3, 14; 5, 5'); in each of the two tubular ducts (6, 8; 13, 14; 5, 5') the supply of a pressurised or, if selected, negative pressure fluid being designed to be activated to cause the duct (6, 8; 13, 14; 5, 5') to expand or contract.